

Title (en)

PILOT-CONTROLLED PRESSURE LIMITING VALVE

Title (de)

VORGESTEUERTES DRUCKBEGRENZUNGSVENTIL

Title (fr)

SOUPEPE PRE-ASSERVIE DE LIMITATION DE LA PRESSION

Publication

EP 1987278 A1 20081105 (DE)

Application

EP 07711394 A 20070127

Priority

- EP 2007000714 W 20070127
- DE 102006007363 A 20060217

Abstract (en)

[origin: US2009314359A1] A pressure limiting valve has a control element (10) which can be acted on in an opening direction, against a first control face, by a pressure which is to be limited, and which can be acted on in a closing direction by a spring (16) and, against a second control face, by a control pressure prevailing in a control pressure space (14). The pressure prevailing in the control pressure space can be limited by means of a pilot control valve (21). A control fluid can be supplied to the control pressure space through the control element via a control fluid nozzle (48). Upstream of the first control face, a plate (38) is held on the control element. Formed between the plate and the first control face is a gap with a predefined gap dimension. Said gap is situated upstream of the control fluid nozzle.

IPC 8 full level

F16K 17/10 (2006.01)

CPC (source: EP US)

F16K 17/105 (2013.01 - EP US); **G05D 16/107** (2018.12 - EP US); **G05D 16/166** (2013.01 - EP US); **Y10T 137/7762** (2015.04 - EP US); **Y10T 137/7766** (2015.04 - EP US); **Y10T 137/777** (2015.04 - EP US)

Citation (search report)

See references of WO 2007093273A1

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DOCDB simple family (publication)

US 2009314359 A1 20091224; **US 8365763 B2 20130205**; AT E479859 T1 20100915; CN 101384847 A 20090311; CN 101384847 B 20101103; DE 102006007363 A1 20070823; DE 502007004919 D1 20101014; EP 1987278 A1 20081105; EP 1987278 B1 20100901; WO 2007093273 A1 20070823

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